



OIE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/033,399

DATE: 01/18/2002

TIME: 08:04:15

 Input Set : A:\13403.0005NPUS00.ST25.txt
 Output Set: N:\CRF3\01182002\J033399.raw

RR 5-4

3 <110> APPLICANT: Wang, Caili
 4 Zhong, Pingyu
 5 Wang, Xinwei
 7 <120> TITLE OF INVENTION: ADAPTER-DIRECTED DISPLAY SYSTEMS
 9 <130> FILE REFERENCE: 13403.0005NPUS00
 11 <140> CURRENT APPLICATION NUMBER: US/10/033,399
 11 <141> CURRENT FILING DATE: 2001-11-02
 11 <160> NUMBER OF SEQ ID NOS: 24
 13 <170> SOFTWARE: PatentIn version 3.1
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 16 <211> LENGTH: 57
 17 <212> TYPE: DNA
 18 <213> ORGANISM: Bacteriophage M13
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 25 <211> LENGTH: 19
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Bacteriophage M13
 29 <400> SEQUENCE: 2
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 35 His Ser Ala
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 40 <211> LENGTH: 57
 41 <212> TYPE: DNA
 42 <213> ORGANISM: Bacteriophage M13
 44 <400> SEQUENCE: 3
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 50 <212> TYPE: DNA
 51 <213> ORGANISM: Artificial Sequence
 53 <220> FEATURE:
 54 <223> OTHER INFORMATION: Synthetic, comprising phage gene III leader sequence, GABAB
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 55 tor 2 domain and Myc domain
 57 <400> SEQUENCE: 4
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 60 aaccatcgcc tgcgaatgaa gatcacagag ctggataaag acttggaaaga ggtcaccatg 120
 62 cagctgcagg acgtcgagg ttgcgcggcc gcagaacaaa aactcatctc agaagaggat 180
 64 ctgagatctg gaggcggtac tggtaaagt tgtttagcaa aa 222
 67 <210> SEQ ID NO: 5
 68 <211> LENGTH: 74

Does Not Comply
Corrected Diskette Needed

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69 <212> TYPE: PRT
 70 <213> ORGANISM: Artificial Sequence
 72 <220> FEATURE:
 73 <223> OTHER INFORMATION: Synthetic, comprising phage gene III leader sequence, GABAB
 recep
 74 tor 2 domain and Myc domain
 76 <400> SEQUENCE: 5
 78 Leu Val Val Pro Phe Tyr Ser His Ser Ala Thr Ser Arg Leu Glu Gly
 79 1 5 10 15
 82 Leu Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp
 83 20 25 30
 86 Lys Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys
 87 35 40 45
 90 Ala Ala Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Arg Ser Gly
 91 50 55 60
 94 Gly Gly Thr Val Glu Ser Cys Leu Ala Lys
 95 65 70
 98 <210> SEQ ID NO: 6
 99 <211> LENGTH: 56
 100 <212> TYPE: PRT
 101 <213> ORGANISM: Artificial Sequence
 103 <220> FEATURE:
 104 <223> OTHER INFORMATION: Synthetic, comprising phage gene III leader sequence, GABAB
 recep
 105 tor 2 domain and Myc domain
 107 <400> SEQUENCE: 6
 109 Thr Ser Arg Leu Glu Gly Leu Gln Ser Glu Asn His Arg Leu Arg Met
 110 1 5 10 15
 113 Lys Ile Thr Glu Leu Asp Lys Asp Leu Glu Glu Val Thr Met Gln Leu
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 117 Gln Asp Val Gly Gly Cys Ala Ala Glu Gln Lys Leu Ile Ser Glu
 118 35 40 45
 121 Glu Asp Leu Arg Ser Gly Gly
 122 50 55
 125 <210> SEQ ID NO: 7
 126 <211> LENGTH: 3093
 127 <212> TYPE: DNA
 128 <213> ORGANISM: Artificial Sequence
 130 <220> FEATURE:
 131 <223> OTHER INFORMATION: Synthetic, comprising ampicillin gene sequence, ColE1
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 132 origin, f1 replication origin, Plac promoter, GABAB receptor 1 d
 133 omain, histidine tag
 135 <400> SEQUENCE: 7
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 138 gcttcggct cgtatgttgt gtggattgt gagcgataa caatttaccg gttctttaag 120
 140 gaggaattaa aaaatgaaat acctattgcc tacggcagcc gctggattgt tattactcgc 180
 142 ggcggccg gccatggcgg ccctgcagcc ctctagagcg gccgctggag gtgaggagaa 240
 144 gtccggctg ttggagaagg agaaccgtga actggaaaag atcattgtctg agaaaagagga 300
 146 gctgtctct gaaactgcgcc atcaactcca gtctgttagga ggtttagat cttatccata 360
 148 cgacgtacca gactacgcag gaggtcatca ccatcatcac cattaatgag tcgaccctga 420
 150 ccaattcgcc ctatagtgag tcgttattaca attcactggc cgtcggttta caacgtcg 480

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156	atggcgaatg	ggacgcgc	tgttagcgccg	cattaagcgc	ggcggtgtg	gtggttacgc	660
158	gcagcgtgac	cgctacactt	gccagcgc	tagcgc	tccttcgt	ttttccctt	720
160	cctttctcg	cacgttgc	ggcttcccc	gtcaagctct	aaatcggggg	ctccctttag	780
162	ggttccgatt	tagtgc	cggtcac	acccaaaaa	acttgattag	ggtgatgggt	840
164	cacgtatgg	gccatgc	tgatagacgg	ttttcgcc	tttgacgtt	gagtccacgt	900
166	tcttaatag	tggacttgc	ttccaaactg	gaacaacact	caaccctatc	tcggctatt	960
168	ctttgattt	ataagggatt	ttgcccattt	cggcctattt	gttaaaaaat	gagctgattt	1020
170	aacaaaaatt	taacgcgaat	ttaacaaaa	tattaacgct	tacaatttag	gtgcactt	1080
172	tccggaaat	gtgcgcggaa	cccctatttgc	tttattttc	taaatacatt	caaatatgt	1140
174	tccgctcatg	agacaataac	cctgataaaat	gcttcaataa	tattgaaaaa	ggaagagtat	1200
176	gagtattcaa	catttccgt	tgcgcctt	tccctttt	gcggcatttt	gccttcgt	1260
178	ttttgctcac	ccagaaacgc	tggtaaagt	aaaagatgt	gaagatcgt	tgggtgcacg	1320
180	agtgggttac	atcgaactgg	atctcaacag	cggtaagatc	cttgagagtt	ttcgccccga	1380
182	agaacgtttt	ccaatgatga	gcactttaa	agttctgt	tgtggcgcgg	tattatcccg	1440
184	tattgacgc	gggcaagagc	aactcggtcg	ccgcatacac	tattctcaga	atgacttgg	1500
186	ttagtactca	ccagtcacag	aaaagcatct	tacggatggc	atgacagtaa	gagaattatg	1560
188	cagtgtgc	ataaccatga	gtgataaacac	tgcggccaa	ttacttctga	caacgatcg	1620
190	agaccgaag	gagctaaccg	cttttttgc	caacatgggg	gatcatgtaa	ctgccttga	1680
192	tcgttggaa	ccggagctga	atgaagccat	accaaacgac	gagcgtgaca	ccacgatgc	1740
194	ttagcaatg	gcaacaacgt	tgcgcaaact	attaaactggc	gaactactta	ctctagctt	1800
196	ccggcaacaa	ttaatagact	ggatggagc	ggataaaagtt	gcaggaccac	ttctgcgtc	1860
198	ggcccttccg	gctggctgt	ttattgctga	taaatctgga	gccggtgagc	gtgggtctcg	1920
200	cgttatcatt	gcagcaactgg	ggccagatgg	taagcccttcc	cgtatcgtag	ttatctacac	1980
202	gacggggagt	caggcaacta	tggatgaacg	aaatagacag	atcgtcgaga	taggtgcctc	2040
204	actgattaag	cattggtaac	tgtcagacca	agtttactca	tatatactt	agattgatt	2100
206	aaaacttcat	tttaatttta	aaaggatcta	ggtgaagatc	ctttttgata	atctcatgac	2160
208	caaaatccct	taacgtgagt	tttcgttcca	ctgagcgtca	gaccccgtag	aaaagatcaa	2220
210	aggatcttct	tgagatc	tttttctgc	cgtaatctgc	tgttgcaaa	aaaaaaaacc	2280
212	accgctacca	gcggtgg	gttgc	tcaagagct	ccaaactctt	ttccgaaggt	2340
214	aactggcttc	agcagagcgc	agataccaa	tactgtc	ctgtgt	cgtagttagg	2400
216	ccaccacttc	aagaactctg	tagcaccgc	tacatacctc	gctctgt	tcctgttacc	2460
218	agtggctgct	gccagtg	ataagtgt	tcttac	ttggact	gacgatagtt	2520
220	accggataag	gcbcagc	cggtgt	ggggctga	ttggact	gacgatagtt	2580
222	gcgaacgacc	tacacc	tgagatac	acagcgt	ctatgagaa	gcccacgc	2640
224	tcccgaaggg	agaaaggc	acaggat	gttaagc	agggtcg	caggagagc	2700
226	cacgagggag	cttcc	gaaacgc	gtatctt	atgc	ttcgcca	2760
228	cctctgactt	gagcgtc	ttt	ctcg	tttt	ggcggagc	2820
230	cgcacgcaac	gcggc	ttt	ggc	ttt	tc	2880
232	ctttcctgc	ttatccct	attctgt	taacc	gtt	atgt	2940
234	taccgctc	cgc	cgac	cgc	gtg	gagc	3000
236	gcgc	ccata	cgaa	ccgc	gag	ggaa	3060
238	cgac	agg	ttt	ccgc	act	tg	3093
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242	<211>	LENGTH:	192				
243	<212>	TYPE:	DNA				
244	<213>	ORGANISM:	Bacteriophage	M13			
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247 ttagtggta ctttctattc tcactccgct taggcttgcg gtgggtgcggc cgccagaacaa 60
249 aaactcatct cagaagagga tctgagatct agatctggag gcggtaactgt taaaagttgt 120
251 ttagcaaaac ctcatacaga aaattcattt actaacgtct ggaaagacga caaaacttta 180
253 gatcgtaa ct 192
256 <210> SEQ ID NO: 9
257 <211> LENGTH: 64
258 <212> TYPE: PRT
259 <213> ORGANISM: Bacteriophage M13
261 <220> FEATURE:
262 <221> NAME/KEY: MISC_FEATURE
263 <222> LOCATION: (11)..(11)
264 <223> OTHER INFORMATION: Xaa = stop codon
267 <400> SEQUENCE: 9
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270 1 5 10 15
273 Ala Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Arg Ser Arg Ser
274 20 25 30
277 Gly Gly Gly Thr Val Glu Ser Cys Leu Ala Lys Pro His Thr Glu Asn
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287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Synthetic, comprising ampicillin gene sequence, ColE1
replication
292 origin, f1 replication origin, Plac promoter, influenza virus he
293 magglutinin tag
295 <400> SEQUENCE: 10
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298 gcttccggct cgtatgtgt gtggattgt gagcggataa caatttacgg gttctttaa 120
300 ctttagtaag gaggattaa aaaatgaaat acctattgcc tacggcagcc gctggattgt 180
302 tattactcgc ggcccaagccg gccatggcgg ccctgcaggc ctctagagcg gccgcttacc 240
304 cgtacgacgt tccggactac gcagggtggct gctgataagt cgacctcgac caattcgccc 300
306 tatagtgagt cgtattacaa ttcaactggcc gtcgtttac aacgtcgtga ctggaaaac 360
308 cctggcgta cccaaacttaa tcgccttgcg gcacatcccc ctttcgcag ctggcgtaat 420
310 agcgaagagg cccgcaccga tcgccttcc caacagttgc gcagcctgaa tggcaatgg 480
312 gacgcgcct gtgcggcgc attaagcgcg gcgggtgtgg tggtaacgcg cagcgtgacc 540
314 gctacacttg ccagcgcct agcgcggcgt ccttcgcct tttcccttc ctttcgcgc 600
316 acgttcgcgc gcttccccg tcaagctcta aatcgggggc tccctttagg gttccgattt 660
318 agtgctttac ggcacccgt ccccaaaaaa cttgatttagg gtgatggtt acgttagtgg 720
320 ccatacgccct gatagacggc tttcgcctt ttgcacgtgg agtccacgtt cttaatagt 780
322 ggactcttgt tccaaactgg aacaacactc aaccctatct cggcttattt tttgattta 840
324 taaggatgtt tgccgatttc ggccttattgg ttaaaaaatg agctgattta aaaaaattt 900
326 aacgcgaatt ttaacaaaat attaacgtt acaatttagg tggcactttt cggggaaatg 960
328 tgccggaaac ccctatttgc ttatcccattt aatacattc aaatatgtat cgcctcatga 1020
330 gacaataacc ctgataaatg ctcaataat attgaaaaag gaagagtatg agtattcaac 1080
332 attccgtgt cgcccttattt ccctttttt cggcattttt ccttcgtt tttgctcacc 1140

Xaa can only represent a single
amino acid;
it cannot
represent a
stop codon

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334	cagaaacgct	ggtgaaagta	aaagatgctg	aagatcagtt	gggtgcacga	gtgggttaca	1200	
336	tgcgaaactgga	tctcaacagc	ggtaaagatcc	ttgagagttt	tcgccccgaa	gaacgtttc	1260	
338	caatgatgag	cactttaaa	gttctgctat	gtggcgcgg	attatccgt	attgacgccc	1320	
340	gcgaagagca	actcggtcgc	cgcatacact	attctcagaa	tgacttgggt	gagtactcac	1380	
342	cagtcacaga	aaagcatctt	acggatggca	tgacagtaag	agaattatgc	agtgtgcac	1440	
344	taaccatgag	tgataaacact	gcggccaact	tacttctgac	aacgatcgga	ggaccgaagg	1500	
346	agctaaccgc	tttttgac	aacatgggg	atcatgtac	tcgccttgc	cgttggaaac	1560	
348	cggagctgaa	tgaagccata	ccaaacgacg	agcgtgacac	cacgatgc	gtagcaatgg	1620	
350	caacaacgtt	gcgcaaacta	ttaactggcg	aactacttac	tctagcttcc	cggcaacaat	1680	
352	taatagactg	gatggaggcg	gataaagttt	caggaccact	tctgcgctcg	gcccttccgg	1740	
354	ctggctgggtt	tattgtgtat	aatatctggag	ccgggtgagcg	ttgggtctcgc	ggtatcattg	1800	
356	cagcactggg	gccagatggt	aaggccctccc	gtatcgtagt	tatctacacg	acggggagtc	1860	
358	aggcaactat	ggatgaacga	aatagacaga	tcgctgagat	aggtgcctca	ctgattaagc	1920	
360	attggtaact	gtcagaccaa	gtttactcat	atatacttta	gattgattta	aaacttcatt	1980	
362	tttaatttaa	aaggatctag	gtgaagatcc	tttttgataa	tctcatgacc	aaaatccctt	2040	
364	aacgtgagtt	ttcgccac	tgagcgtcag	accccgtaga	aaagatcaaa	ggatcttctt	2100	
366	gagatccctt	tttctgcgc	gtaatctgt	gcttgc当地	aaaaaaacca	ccgctaccag	2160	
368	cggctgggtt	tttgcggat	caagagctac	caactcttt	tccgaaggta	actggcttca	2220	
370	gcagagcgc	gataccaaat	actgtccttc	tagttagcc	gtagttaggc	caccactca	2280	
372	agaactctgt	agcaccgcct	acatacctcg	ctctgctaat	cctgttacca	gtggctgctg	2340	
374	ccagtggcg	taagtctgt	cttaccgggt	tggactcaag	acgatagtt	ccggataagg	2400	
376	cgcagcggc	gggctgaacg	gggggttctg	gcacacagcc	cagttggag	cgaacgac	2460	
378	acaccgaact	gagataccct	cagcgtgagc	tatgagaaag	cgc当地	ccc当地	2520	
380	gaaaggcgg	caggtatccg	gtaagcggca	gggtc当地	aggagagcgc	acgaggggagc	2580	
382	ttccaggggg	aaacgcctgg	tatcttata	gtcctgtcgg	gttgc当地	ctctgactt	2640	
384	acgctcgatt	tttgcgtat	tcgtcagggg	ggcggagcc	atggaaaaac	gccagcaac	2700	
386	cgcctttt	acggttcc	gcctttgc	ggcctttgc	tcacatgtt	tttgc当地	2760	
388	tatcccctga	ttctgtggat	aaccgttata	ccgccttgc	gtgagctat	accgctcgcc	2820	
390	gcagccgaa	gaccgagcgc	acgagtcag	tgagcggag	agcggaaagag	cggccaaatac	2880	
392	gcaaaccgc	tctccccgg	cgttggccga	ttcattaaatg	cagctggcac	gacaggttc	2940	
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400	<213>	ORGANISM:	Bacteriophage M13					
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405	aaccatcgcc	tgcgaatgaa	gatcaca	gag	ctggataaa	acttggaa	ggtcaccat	120
407	cagctgcagg	acgtcggagg	ttgc当地	ggc当地	gcagaacaaa	aactgtat	tc	180
409	ctgacgcgt	ctggcgc当地	ctctgggt	ggttctgg	gc当地	gggtggc当地	240	
411	tctgaggggt	gc当地	gggtggc当地	tctgaggggt	gc当地	gggttccgg	tggc当地	300
413	gttccgggt	atttgttata	tgaaaaatg	gcaaa	acta	atagggggc	tatgaccgaa	360
415	aatcccgat	aaaacgcgt	acagtctgac	gctaa	aggca	aacttgc	tgtcgctact	420
417	gattacgggt	ctgctatcga	tggtttattc	ggtgacgtt	ccggccttgc	taatggta	480	
419	gttgc当地	gtgattttgc	tggc当地	taatggta	tccaaatgg	ctca	tgacgggt	540
421	aattcacctt	taatgaataa	tttccgtcaa	tat	tttacctt	ccctccctca	atcggtt	600
423	tgtccccc	ttgtcttgg	cgtggtaaa	ccatata	gtt	tattga	ttgtgacaaa	660
425	ataaaacttat	tccgtgggt	cttgc当地	ttt	tttata	atgtt	tttgc当地	720
427	tttctacgt	ttgctaa	actgc当地	ttt	tttgc当地	tttgc当地	tttgc当地	780

→

Use of n and/or Xaa has been detected in the Sequence Listing.
E. G. in the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY
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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14